



SEQUENCE LISTING

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<160> 25

<170> PatentIn Ver. 2.0

<210> 1

<211> 220

<212> PRT

<213> Homo sapiens

<220>

<221> DOMAIN

<222> (1)..(220)

<223> Encoded by Exon III of HEK gene

<400> 1

Trp Glu Glu Ile Ser Gly Val Asp Glu His Tyr Thr Pro Ile Arg Thr
1 5 10 15

Tyr Gln Val Cys Asn Val Met Asp His Ser Gln Asn Asn Trp Leu Arg
20 25 30

Thr Asn Trp Val Pro Arg Asn Ser Ala Gln Lys Ile Tyr Val Glu Leu
35 40 45

Lys Phe Thr Leu Arg Asp Cys Asn Ser Ile Pro Leu Val Leu Gly Thr
50 55 60

Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Met Glu Ser Asp Asp Asp His
65 70 75 80

Gly Val Lys Phe Arg Glu His Gln Phe Thr Lys Ile Asp Thr Ile Ala
85 90 95

Ala Asp Glu Ser Phe Thr Gln Met Asp Leu Gly Asp Arg Ile Leu Lys
100 105 110

Leu Asn Thr Glu Ile Arg Glu Val Gly Pro Val Asn Lys Lys Gly Phe
115 120 125

Tyr Leu Ala Phe Gln Asp Val Gly Ala Cys Val Ala Leu Val Ser Val
130 135 140

Arg Val Tyr Phe Lys Lys Cys Pro Phe Thr Val Lys Asn Leu Ala Met
145 150 155 160

Phe Pro Asp Thr Val Pro Met Asp Ser Gln Ser Leu Val Glu Val Arg
165 170 175

Gly Ser Cys Val Asn Asn Ser Lys Glu Glu Asp Pro Pro Arg Met Tyr
180 185 190

Cys Ser Thr Glu Gly Glu Trp Leu Val Pro Ile Gly Lys Cys Ser Cys
195 200 205

Asn Ala Gly Tyr Glu Glu Arg Gly Phe Met Cys Gln
210 215 220

<210> 2

<211> 22

<212> PRT

<213> Homo sapiens

<220>

<221> DOMAIN

<222> (1)..(22)

<223> Encoded by Exon II of HEK gene

<400> 2

Val Asn Leu Leu Asp Ser Lys Thr Ile Gln Gly Glu Leu Gly Trp Ile
1 5 10 15

Ser Tyr Pro Ser His Gly
20

<210> 3

<211> 29

<212> PRT

<213> Homo sapiens

<220>

<221> DOMAIN

<222> (1)..(29)

<223> Encoded by Exon I of HEK gene

<400> 3

Met Asp Cys Gln Leu Ser Ile Leu Leu Leu Leu Ser Cys Ser Val Leu
1 5 10 15

Asp Ser Phe Gly Glu Leu Ile Pro Gln Pro Ser Asn Glu
20 25

<210> 4

<211> 271

<212> PRT

<213> Homo sapiens

<400> 4

Met Asp Cys Gln Leu Ser Ile Leu Leu Leu Leu Ser Cys Ser Val Leu
1 5 10 15

Asp Ser Phe Gly Glu Leu Ile Pro Gln Pro Ser Asn Glu Val Asn Leu
20 25 30

Leu Asp Ser Lys Thr Ile Gln Gly Glu Leu Gly Trp Ile Ser Tyr Pro
35 40 45

Ser His Gly Trp Glu Glu Ile Ser Gly Val Asp Glu His Tyr Thr Pro
50 55 60

Ile Arg Thr Tyr Gln Val Cys Asn Val Met Asp His Ser Gln Asn Asn
65 70 75 80

Trp Leu Arg Thr Asn Trp Val Pro Arg Asn Ser Ala Gln Lys Ile Tyr
85 90 95

Val Glu Leu Lys Phe Thr Leu Arg Asp Cys Asn Ser Ile Pro Leu Val
100 105 110

Leu Gly Thr Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Met Glu Ser Asp
115 120 125

Asp Asp His Gly Val Lys Phe Arg Glu His Gln Phe Thr Lys Ile Asp
130 135 140

Thr Ile Ala Ala Asp Glu Ser Phe Thr Gln Met Asp Leu Gly Asp Arg

145	150	155	160
Ile Leu Lys Leu Asn Thr Glu Ile Arg Glu Val Gly Pro Val Asn Lys			
165	170	175	
Lys Gly Phe Tyr Leu Ala Phe Gln Asp Val Gly Ala Cys Val Ala Leu			
180	185	190	
Val Ser Val Arg Val Tyr Phe Lys Lys Cys Pro Phe Thr Val Lys Asn			
195	200	205	
Leu Ala Met Phe Pro Asp Thr Val Pro Met Asp Ser Gln Ser Leu Val			
210	215	220	
Glu Val Arg Gly Ser Cys Val Asn Asn Ser Lys Glu Glu Asp Pro Pro			
225	230	235	240
Arg Met Tyr Cys Ser Thr Glu Gly Glu Trp Leu Val Pro Ile Gly Lys			
245	250	255	
Cys Ser Cys Asn Ala Gly Tyr Glu Glu Arg Gly Phe Met Cys Gln			
260	265	270	

<210> 5

<211> 813

<212> DNA

<213> Homo sapiens

<220>

<221> exon

<222> (1)..(813)

<223> Exons I, II and III of HEK gene

<400> 5

atg gat tgt cag ctc tcc atc ctc ctc ctt ctc agc tgc tct gtt ctc	48
gac agc ttc ggg gaa ctg att ccg cag cct tcc aat gaa gtc aat cta	96
ctg gat tca aaa aca att caa ggg gag ctg ggc tgg atc tct tat cca	144
tca cat ggg tgg gaa gag atc agt ggt gtg gat gaa cat tac aca ccc	192
atc agg act tac cag gtg tgc aat gtc atg gac cac agt caa aac aat	240
tgg ctg aga aca aac tgg gtc ccc agg aac tca gct cag aag att tat	288
gtg gag ctc aag ttc act cta cga gac tgc aat agc att cca ttg gtt	336

tta gga act tgc aag gag aca ttc aac ctg tac tac atg gag tct gat	384
gat gat cat ggg gtg aaa ttt cga gag cat cag ttt aca aag att gac	432
acc att gca gct gat gaa agt ttc act caa atg gat ctt ggg gac cgt	480
att ctg aag ctc aac act gag att aga gaa gta ggt cct gtc aac aag	528
aag gga ttt tat ttg gca ttt caa gat gtt ggt gct tgt gtt gcc ttg	576
gtg tct gtg aga gta tac ttc aaa aag tgc cca ttt aca gtg aag aat	624
ctg gct atg ttt cca gac acg gta ccc atg gac tcc cag tcc ctg gtg	672
gag gtt aga ggg tct tgt gtc aac aat tct aag gag gaa gat cct cca	720
agg atg tac tgc agt aca gaa ggc gaa tgg ctt gta ccc att ggc aag	768
tgt tcc tgc aat gct ggc tat gaa gaa aga ggt ttt atg tgc caa	813

<210> 6
 <211> 87
 <212> DNA
 <213> Homo sapiens

<220>
 <221> exon
 <222> (1)..(87)
 <223> Exon I of HEK gene

<400> 6	
atg gat tgt cag ctc tcc atc ctc ctc ctt ctc agc tgc tct gtt ctc	48
gac agc ttc ggg gaa ctg att ccg cag cct tcc aat gaa	87

<210> 7
 <211> 66
 <212> DNA
 <213> Homo sapiens

<220>
 <221> exon
 <222> (1)..(66)
 <223> Exon II of HEK gene

<400> 7

gtc aat cta ctg gat tca aaa aca att caa ggg gag ctg ggc tgg atc 48

tct tat cca tca cat ggg 66

<210> 8

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> exon

<222> (1)..(660)

<223> Exon III of HEK gene

<400> 8

tgg gaa gag atc agt ggt gtg gat gaa cat tac aca ccc atc agg act 48

tac cag gtg tgc aat gtc atg gac cac agt caa aac aat tgg ctg aga 96

aca aac tgg gtc ccc agg aac tca gct cag aag att tat gtg gag ctc 144

aag ttc act cta cga gac tgc aat agc att cca ttg gtt tta gga act 192

tgc aag gag aca ttc aac ctg tac tac atg gag tct gat gat gat cat 240

ggg gtg aaa ttt cga gag cat cag ttt aca aag att gac acc att gca 288

gct gat gaa agt ttc act caa atg gat ctt ggg gac cgt att ctg aag 336

ctc aac act gag att aga gaa gta ggt cct gtc aac aag aag gga ttt 384

tat ttg gca ttt caa gat gtt ggt gct tgt gtt gcc ttg gtg tct gtg 432

aga gta tac ttc aaa aag tgc cca ttt aca gtg aag aat ctg gct atg 480

ttt cca gac acg gta ccc atg gac tcc cag tcc ctg gtg gag gtt aga 528

ggg tct tgt gtc aac aat tct aag gag gaa gat cct cca agg atg tac 576

tgc agt aca gaa ggc gaa tgg ctt gta ccc att ggc aag tgt tcc tgc 624

aat gct ggc tat gaa gaa aga ggt ttt atg tgc caa 660

<210> 9

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: HEK PCR primer

<400> 9

gtaggaattc ctctcactgc cctctgc

27

<210> 10

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: HEK PCR primer

<400> 10

gtagggatcc ggctcctgt tccag

25

<210> 11

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: HEK PCR primer

<400> 11

gtaggaattc catggcttgt acccgac

27

<210> 12

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: HEK PCR primer

<400> 12

gtagggatcc cataatgctt gcttctc

27

<210> 13

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: HEK PCR primer

<400> 13

atggatggta acttctccag

20

<210> 14

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: HEK PCR primer

<400> 14

tcattggaag gctgcggaat

20

<210> 15

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: HEK PCR primer

<400> 15

gtagtctaga caagcttgtc gaccagggtt

30

<210> 16

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: HEK PCR primer

<400> 16

gtagtctaga tcaagcctga ttagttgtga tgc

33

<210> 17

<211> 26

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Eph family RTK
 degenerate PCR primer

 <400> 17
 gtaggcatgc aaggagacmt tyaacc 26

 <210> 18
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Eph family RTK
 degenerate PCR primer

 <400> 18
 ccratgggna ccagccaytc 20

 <210> 19
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: HEK PCR primer

 <400> 19
 gtagtctaga gaactgattc cgcagccttc caa 33

 <210> 20
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: HEK PCR primer

 <400> 20
 gtagtctaga tcatggaggt cgggtacaag c 31

<210> 21
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: HEK PCR primer

 <400> 21
 gtagtctaga tcaagcttgg cacataaaac ctc 33

 <210> 22
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: HEK PCR primer

 <400> 22
 gtagtctaga caagcttggtc gaccaggttt c 31

 <210> 23
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: HEK PCR primer

 <400> 23
 gtagtctaga tcattggcta ctttcaccag ag 32

 <210> 24
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: LERK7 PCR
 primer

 <400> 24
 gtagtctaga caggaccgg gctccaaggc 30

<210> 25

<211> 7

<212> PRT

<213> Homo sapiens

<400> 25

Gln Asp Pro Gly Ser Lys Ala

1

5